

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	34	703/8.ccls. and @pd>"20061001"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 17:31

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6690	active near suspension and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 10:55
S2	597	(active near suspension).ti. and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 11:06
S3	624	(air near suspension).ti. and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 11:13
S4	47	(air near suspension) and instrumentation and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 11:17
S5	0	(air near suspension) near instrument\$6 and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 11:17

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	440	model\$4 near spring and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 15:30
L2	54	L1 and suspension	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 15:18
L3	29	L2 and (automobile or car or vehicle)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 15:18
L4	313	simulat\$4 near spring and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 15:31
L5	146	L4 and (spring.ti. or spring.ab.)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/05/07 15:31


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spring simulation

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D Hutchinson, M Preston, T Hewitt - 7th Eurographics Workshop on Animation and Simulation, 1996 - graphics.stanford.edu

... suitability. Keywords: Computer Animation, **Simulation**, Deformable Bodies,**Spring**- Mass Approximations, Adaptive Renement . Animations ...[Cited by 68](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**[book] Distributed simulation based on the high level architecture in civilian application domains**

S Straßburger - 2001 - citeseer.ist.psu.edu

... Bougezouli, Straburger 1 Ein auf Java basiertes GPSS (context) - Beikirch - 1998

1 **Spring Simulation** Interoperability Workshop (context) - Briggs, RTI - 1998 ...[Cited by 35](#) - [Related Articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#)**[book] Simulation of Water Use, Nitrogen Nutrition and Growth of a Spring Wheat Crop**

H van Keulen, NG Seligman - 1987 - Pudoc

[Cited by 68](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)**[PS] Qualitative Simulation - group of 10 »**

B Kuipers - Artificial Intelligence, 1986 - cs.utexas.edu

Page 1. Qualitative **Simulation** Benjamin Kuipers y ... Abstract: Qualitative simulation is a key inference process in qualitative causal rea- soning. ...[Cited by 697](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**Data Alignment Between Army C4I Databases and Army Simulations - group of 3 »**MR Hieb, J Blalock - Paper 99S-SIW-034, **Spring Simulation** Interoperability ..., 1999 - online.cs.nps.navy.milPage 1. 1999 **Spring Simulation** Interoperability Workshop Orlando, Florida ... Page 21999 **Spring Simulation** Interoperability Workshop Orlando, Florida interaction. ...[Cited by 24](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**... simulation of changes in soil mineral nitrogen and crop nitrogen during autumn, winter and spring**

TM ADDISCOTT, AP WHITMORE - Journal of Agricultural Science, 1987 - cat.inist.fr

Computer **simulation** of changes in soil mineral nitrogen and crop nitrogen during autumn, winter and **spring**. TM ADDISCOTT, AP WHITMORE ...[Cited by 74](#) - [Related Articles](#) - [Web Search](#)**Approximate simulation of elastic membranes by triangulated spring meshes - group of 3 »**

A Van Gelder - Journal of Graphics Tools, 1998 - portal.acm.org

... equilibrium calculations. A formula for **spring** stiffness that provides a more accurate **simulation** is then derived. In its simplest ...[Cited by 45](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)


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spring simulation suspension

1950

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Scholar [All articles](#) [Recent articles](#) Results **1 - 10** of about **5,890** for **spring simulation suspension**. (0.32)
All Results[G Fedder](#)[S Choi](#)[M Rao](#)[M McKenna](#)[Y Choi](#)**ROAD SIMULATOR FACILITY**

VD Polhemus - US Patent 3,520,180, 1970 - Google Patents

... for vehicle **suspension** system evalu -ation including, for each suspended wheel, a **simulator** unit comprising a pair of drums mounted on a **spring**- suspended ...[Cited by 32](#) - [Related Articles](#) - [Web Search](#)**... Mode Control of a Full-Car Electrorheological Suspension System Via Hardware in-the-Loop Simulation - group of 2 »**

SB Choi, YT Choi, DW Park - Journal of Dynamic Systems, Measurement, and Control, 2000 - link.aip.org

... equal to the sum of the **spring** constant of the **suspension spring** and is ... As a first step, the computer **simulation** for the full-car ER **suspension** system is ...[Cited by 46](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Suspension simulator - group of 5 »**

GH Koopmann - US Patent 5,003,819, 1991 - Google Patents

... 40 8 6. The **suspension simulator** according to claim 5, wherein said **spring** means further comprises an adjust -able damper. 7. The ...[Cited by 10](#) - [Related Articles](#) - [Web Search](#)**[BOOK] Simulation of a Vehicle Suspension with the ADAMS Computer Program**

N Orlandea, MA Chace, Society of Automotive ... - 1977 - Society of Automotive Engineers

[Cited by 16](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)**Vehicle Chassis/Suspension Dynamics Analysis-Finite Element Model vs. Rigid Body Model - group of 2 »**

Y Zhang, P Xiao, T Palmer, A Farahani - SAE Paper, 1998 - eta.com.cn

... Figure 11: Belgian Block **Simulation - Spring** Forces. ... Here again, the data related to the rear **suspension** for the two models shows much significant differences ...[Cited by 7](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**A PZT Micro-Actuated Suspension for High TPI Hard Disk Servo Systems - group of 4 »**

Y Niu, W Guo, G Guo, EH Ong, KK Sivadasan, T Huang - IEEE TRANSACTIONS ON MAGNETICS, 2000 - ieeexplore.ieee.org

... 4. Diagrammatic cross-section of the actuated **suspension** assembly, illustrating ... across the both ends of the **spring** beam are ... A shock **simulation** found that about ...[Cited by 11](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**A Simplified 4-DOF Suspension Model for Dynamic Load/Unload Simulation and Its Application - group of 2 »**

QH Zeng, DBBWS Floyd Jr... - Journal of Tribology, 2000 - link.aip.org

... All effects of the **suspension** are included, but these ... et al.'s and Peng's **simulation**, the suspensions were modeled as three de-coupled **springs** and dampers ...[Cited by 12](#) - [Related Articles](#) - [Web Search](#)


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Manchester benchmarks for rail vehicle simulation

 S IWNICK - **Vehicle** System Dynamics, 1998 - cat.inist.fr

 ... véhicule; **Vehicle suspension**; **Suspensión** vehículo; Bogie; Bogie; Bogie; Etude comparative; Comparative study; Estudio comparativo; **Simulation** numérique ...

 Cited by 27 - [Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)
[BOOK] Simulation of a Vehicle Suspension with the ADAMS Computer Program

N Orlandea, MA Chace, Society of Automotive ... - 1977 - Society of Automotive Engineers

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Applications of optimal control to advanced automotive suspension design

D HROVAT - Journal of dynamic systems, measurement, and control, 1993 - cat.inist.fr

 ... automóvil; **Suspension** véhicule; **Vehicle suspension**; **Suspensión** vehículo; Amortisseur ...

 control; Control ótimo; Modèle **simulation**; **Simulation** model; Modelo ...

 Cited by 85 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
[CITATION] A review of modelling methods for railway vehicle suspension components

 BM Eickhoff, JR Evans, AJ Minnis - **Vehicle** System Dynamics, 1995

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A tunable fuzzy logic controller for vehicle-active suspension systems - group of 4 »

MVC Rao, V Prahlad - Fuzzy Sets and Systems, 1997 - Elsevier

 ... **suspension** has been proposed and its capabilities for the improvement of ride comfort and **vehicle** manoeuvrability are studied through software **simulation**. ...

 Cited by 49 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
Observer-based identification of nonlinear system parameters

K YI, K HEDRICK - Journal of dynamic systems, measurement, and control, 1995 - cat.inist.fr

 ... medida; **Suspension** véhicule; **Vehicle suspension**; **Suspensión** vehículo; Etude expérimentale; Experimental study; Estudio experimental; **Simulation** numérique ...

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Optimal linear preview control of active vehicle suspension

A Hac - Decision and Control, 1990., Proceedings of the 29th IEEE ..., 1990 - ieeexplore.ieee.org

 ... The results of numerical **simulation** for a 2-DOF **vehicle suspension** model are presented in Section 4 and ,finally, conclusions are given. ...

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Modelling the dynamic behaviour of a motorcycle damper - group of 2 »

AL AUDENINO, G BELINGARDI - Proceedings of the Institution of Mechanical Engineers. Part ..., 1995 - cat.inist.fr

 ... Efecto no lineal; Non linear effect; Efecto no lineal; **Suspension** véhicule; **Vehicle**


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gas spring

1950

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All Results[Stabilus GmbH](#)[D Kowall](#)[H Bauer](#)[K Schnitzius](#)[Tokico Ltd.](#)**Gas spring with automatic locking mechanism - group of 2 »**

K Schnitzius - US Patent 4,230,309, 1980 - Google Patents

... Schnitzius [54] **GAS SPRING WITH AUTOMATIC LOCKING MECHANISM** [75] Inventor: KlausSchnitzius, Rheinbrohl, Fed. Rep. ... **GAS SPRING WITH AUTOMATIC LOCKING ...**[Cited by 27](#) - [Related Articles](#) - [Web Search](#)**Medical injection system and method, gas spring thereof and launching device using gas spring - group of 6 »**

SJ Lilley, HF Taylor, DR Theobald, CJ Carlson, DI ... - US Patent 5,599,302, 1997 - Google Patents

... Lilley et al. [54] [75] [73] [21] [22] [51] [52] [58] **MEDICAL INJECTION SYSTEM AND METHOD, GAS SPRING THEREOF AND LAUNCHING DEVICE USING GAS SPRING ...**[Cited by 28](#) - [Related Articles](#) - [Web Search](#)**Counterbalancing mechanism for X-ray tubeheads - group of 2 »**

CG Nilsen, RA Gabel - US Patent 4,166,602, 1979 - Google Patents

... The mechanism includes a commercially available **gas spring** which is used in conjunction

with parallel motion linkage assembly which carries the tubehead. ...

[Cited by 49](#) - [Related Articles](#) - [Web Search](#)**Adjustable display stand - group of 2 »**

RW Wendling, JW Kurtz, JM Perez - US Patent 4,691,886, 1987 - Google Patents

... A tilt **gas spring** and a height **gas spring** are interconnected within the linkage in such a manner as to offset the weight of the display mechanism when the ...[Cited by 36](#) - [Related Articles](#) - [Web Search](#)**Pillar intended to form part of a furniture support equipped with a gas spring - group of 3 »**

D Dony - US Patent 5,284,312, 1994 - Google Patents

... Dony [54] **PILLAR INTENDED TO FORM PART OF A FURNITURE SUPPORT EQUIPPED WITH A GAS****SPRING** [75] Inventor ... a lockable **gas spring** mounted inside the sliding tube ...[Cited by 12](#) - [Related Articles](#) - [Web Search](#)**Gas spring, filling and sealing structure - group of 2 »**

K Ishida - US Patent 4,360,192, 1982 - Google Patents

... Ishida [54] **GAS SPRING, FILLING AND SEALING STRUCTURE** [75] Inventor: Kunio Ishida,

Yokohama, Japan [73] Assignee: Tokico Ltd., Kawasaki, Japan [21] Appl. ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)**Gas spring with secondary lock - group of 3 »**

TL Howard - US Patent 4,596,383, 1986 - Google Patents

... [45] Date of Patent: [54] **GAS SPRING WITH SECONDARY LOCK ...** [73] Assignee: **Gas Spring**


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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

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IEEE STD IEEE Standard

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- ☐ 1. **Nonlinear design of active suspensions**
 Jung-Shan Lin; Kanellakopoulos, I.;
[Control Systems Magazine, IEEE](#)
 Volume 17, Issue 3, June 1997 Page(s):45 - 59
 Digital Object Identifier 10.1109/37.588129
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(1000 KB\)](#) IEEE JNL
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- ☐ 2. **Design of an active suspension system based on a biological model**
 Shih-Lang Chang; Chi-Haur Wu;
[American Control Conference, 1997. Proceedings of the 1997](#)
 Volume 5, 4-6 June 1997 Page(s):2915 - 2919 vol.5
 Digital Object Identifier 10.1109/ACC.1997.611991
[AbstractPlus](#) | Full Text: [PDF\(472 KB\)](#) IEEE CNF
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- ☐ 3. **Robust H[∞]-output feedback control of decoupled automobile active suspension systems**
 Hayakawa, K.; Matsumoto, K.; Yamashita, M.; Suzuki, Y.; Fujimori, K.; Kimura, H.;
[Automatic Control, IEEE Transactions on](#)
 Volume 44, Issue 2, Feb. 1999 Page(s):392 - 396
 Digital Object Identifier 10.1109/9.746274
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(156 KB\)](#) IEEE JNL
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- ☐ 4. **Electronically controlled automotive suspensions**
 Williams, R.A.;
[Computing & Control Engineering Journal](#)
 Volume 5, Issue 3, June 1994 Page(s):143 - 148
[AbstractPlus](#) | Full Text: [PDF\(404 KB\)](#) IET JNL
- ☐ 5. **Development and control of a prototype pneumatic active suspension system**
 Anakwa, W.K.N.; Thomas, D.R.; Jones, S.C.; Bush, J.; Green, D.; Anglin, G.W.; Rio, R.; Sheng, J.;
[Education, IEEE Transactions on](#)
 Volume 45, Issue 1, Feb. 2002 Page(s):43 - 49
 Digital Object Identifier 10.1109/13.983220
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IET JNL IET Journal or Magazine

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- ☐ 1. **The distributed simulation of multiagent systems**
 Logan, B.; Theodoropoulos, G.;
[Proceedings of the IEEE](#)
 Volume 89, Issue 2, Feb 2001 Page(s):174 - 185
 Digital Object Identifier 10.1109/5.910853
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- ☐ 2. **Large-vocabulary continuous speech recognition: advances and applications**
 Gauvain, J.-L.; Lamel, L.;
[Proceedings of the IEEE](#)
 Volume 88, Issue 8, Aug. 2000 Page(s):1181 - 1200
 Digital Object Identifier 10.1109/5.880079
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- ☐ 3. **A low-cost force feedback joystick and its use in PC video games**
 Ming Ouhyoung; Wu-Nan Tsai; Ming-Chang Tsai; Jiann-Rong Wu; Chung-Hsi Huang; Tzong-Jer Y
[Consumer Electronics, IEEE Transactions on](#)
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 Digital Object Identifier 10.1109/30.468083
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 Hoxie, S.; Irizarry, G.; Lubetsky, B.; Wetzel, D.;
[Computer Graphics and Applications, IEEE](#)
 Volume 18, Issue 2, March-April 1998 Page(s):6 - 9
 Digital Object Identifier 10.1109/38.656783
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(288 KB) IEEE JNL
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- ☐ 5. **Surface/bulk micromachined single-crystalline-silicon micro-gyroscope**
 Sangwoo Lee; Sangjun Park; Jongpal Kim; Sangchul Lee; Dong-II Cho;
[Microelectromechanical Systems, Journal of](#)
 Volume 9, Issue 4, Dec. 2000 Page(s):557 - 567
 Digital Object Identifier 10.1109/84.896779



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 Tagawa, N.; Hashimoto, M.;
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 Smith, M.C.;
[Automatic Control, IEEE Transactions on](#)
 Volume 47, Issue 10, Oct. 2002 Page(s):1648 - 1662
 Digital Object Identifier 10.1109/TAC.2002.803532
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(438 KB\)](#) IEEE JNL
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- ☐ 3. Dynamics of suspension-slider-air-bearing systems: experimental study
 Qing-Hua Zeng; Boggy, D.B.;
[Mechatronics, IEEE/ASME Transactions on](#)
 Volume 3, Issue 3, Sept. 1998 Page(s):210 - 217
 Digital Object Identifier 10.1109/3516.712117
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(188 KB\)](#) IEEE JNL
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- ☐ 4. Use of simulation in the design of automotive electronics
 Havranek, W.A.; Goucem, A.;
[Automotive Electronics, 1991., Eighth International Conference on](#)
 28-31 Oct 1991 Page(s):85 - 89
[AbstractPlus](#) | Full Text: [PDF\(240 KB\)](#) IET CNF
- ☐ 5. Novel method for minimizing track seeking residual vibrations of hard disk drives
 Sheng Zeng; Rong-Ming Lin; Li-Mei Xu;
[Magnetics, IEEE Transactions on](#)
 Volume 37, Issue 3, May 2001 Page(s):1146 - 1156
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coil spring simulation

1950

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JB Rundle, DD Jackson - Bulletin of the Seismological Society of America, 1977 - Seismol Soc America

... the **coil spring** constants was taken as 4X because 800 kb is near Young's modulus for granite. Because of the scaling relationship above, the **simulation** results ...[Cited by 43](#) - [Related Articles](#) - [Web Search](#)**Knot simulator - group of 2 »**

TR Gideon - US Patent 3,964,105, 1976 - Google Patents

... of the side portions adjacent the top edge of the **simulator** hereofisgenerally identified therein by refer- ... lever sections, and a **coil spring** about the axle ...[Cited by 16](#) - [Related Articles](#) - [Web Search](#)**Seismicity simulation with a mass-spring model and a displacement hardening-softening friction law**

T Cao, K Aki - Pure and Applied Geophysics, 1984 - Springer

... are ready for our **simulation**, we must choose model parameters. We need to choose the time step Δt , the block mass, leaf and **coil spring** constants, constants σ ...[Cited by 23](#) - [Related Articles](#) - [Web Search](#)**Video game and simulator joystick controller with geared potentiometer actuation - group of 3 »**

DW Reeves - US Patent 5,436,640, 1995 - Google Patents

... opposite ends. Each **spring** has a center coil section, and aircraft **simulator** software, for example, movement of two end portions. ... **coil** portion. ...[Cited by 56](#) - [Related Articles](#) - [Web Search](#)**Mechanical surfboard simulator - group of 3 »**

CS Giovanni - US Patent 5,509,871, 1996 - Google Patents

... 7. The surfboard **simulator** device of claim 1 wherein the **spring** assembly includes first and second **coil springs** wherein the elongated surfboard has a ...[Cited by 8](#) - [Related Articles](#) - [Web Search](#)**ROAD SIMULATOR FACILITY**

VD Polhemus - US Patent 3,520,180, 1970 - Google Patents

... with perimeter frame 32 by means of **coil springs** 66 and ... damper units 42 and 44 and the **springs** 66 and ... improving the overall fidelity of the **simulation** process. ...[Cited by 32](#) - [Related Articles](#) - [Web Search](#)**Seismicity simulation with a rate-and state-dependent friction law - group of 2 »**

T Cao, K Aki - Pure and Applied Geophysics, 1986 - Springer

... In fact, in CAO and AKI's **simulation** (1984), with ... diagram of a one-dimensional mass-**spring** fault model ... elements connected to each other by **coil springs** is in ...[Cited by 25](#) - [Related Articles](#) - [Web Search](#)**Application of the orthodontic measurement and simulation system (OMSS)**